

Electro-Voice®

a MARK IV company

Models 2508/2509 Eight-Input Automatic Mixers

SPECIFICATIONS

Frequency Response:

20-20,000 Hz, ± 1 dB

Equivalent Input Noise:

-126 dBm per channel, A weighted

Distortion (THD):

.1%

Maximum Gain:

78 dB

Microphone Input Equalization,

Channel 1 and 2,

Treble,

Level: ± 12 dB at 10,000 Hz

Hinge Frequency: 1,000 Hz

Bass,

Level: ± 12 dB at 30 Hz

Hinge Frequency: 1,000 Hz

Input Configuration:

8 mic/line (2 with bass and treble control)

1 auxiliary

1 background

1 page

Microphone Input Impedance,

Actual:

6,800 ohms electronically balanced

Recommended Input:

150-600 ohms

Line Input Impedance,

Actual:

20,000 ohms electronically balanced

Phantom Power:

+24 V dc through 3,400-ohm resistors

Output Load Impedance:

600 ohms or greater

Maximum Output Level:

+18 dBm

Pre-Vca Output Impedance:

604 ohms

Pre-Vca Output Level:

+3 to +60 dB relative to input level

-18 dB below master output level

Pre-Vca Mix Output Impedance:

604 ohms

Pre-Vca Mix Output Level:

6 dB below master output at

zero attenuation

Post-Vca Output Impedance:

604 ohms

Channel Off Attenuation:

0 to -90 dB

Channel Release Time:

1 to 10 seconds

Channel Active Output:

Open collector type capable of sinking

200 mA at 30 V dc

High Pass Filter:

-6 dB at 125 Hz

-30 dB at 32 Hz

Power Consumption:

11 watts

Dimensions,

Height:

4.45 cm (1.75 in.)

Depth:

26.67 cm (10.5 in.)

Width:

48.26 cm (19 in.)

Net Weight:

4.28 kg (9.5 lb)

Shipping Weight:

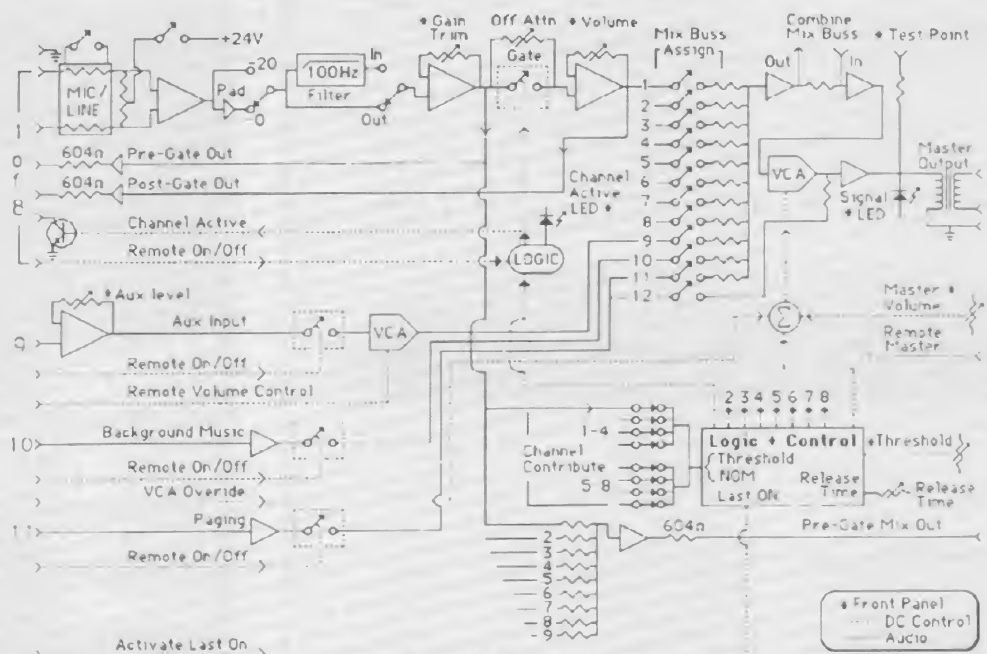
5.40 kg (12 lb)

DESCRIPTION

The 2508 and 2509 are a new breed of automatic microphone mixers designed to meet the ever changing requirements of the professional sound reinforcement industry. The unique combination of features of the 2508 and 2509 provide many benefits for the consultant, contractor and end user. These features make the 2508 and 2509 mixers ideal for use in meeting rooms, churches, and teleconferencing. The standard features provide the consultant with powerful tools that allow increased flexibility of design necessary to meet the needs of the end user. These features also allow for ease of installation by the contractor without the need for custom work.

GENERAL FEATURES

- Automatic gating with NOM attenuation
- Designed specifically for room combining applications
- Vca override or mute for emergency paging
- Eight electronically balanced microphone/line inputs
- One unbalanced auxiliary line level input
- Separate input for background music
- Separate input for paging
- Bass and treble controls on 2 inputs
- Adjustable "OFF" attenuation on each channel
- Adjustable release time
- Direct channel outputs — pre- and post-gate
- Remote control of master level
- Remote control of auxiliary input
- Remote control of each channel (2509 only)



2508 BLOCK DIAGRAM

- Remote ON/OFF control of all inputs
- "Channel Active" indication on front panel
- Status output port for "Channel Active"
- Pre-gate tape output
- Configured for addition of auto level control on output

INPUT SECTION FEATURES

The 2508 and 2509 have eleven inputs, nine of them controllable from the front panel. These nine inputs include eight switchable (mic/line) electronically balanced, automatic gating inputs with bass and treble controls on two channels and one non-gating unbalanced auxiliary line input. The tenth and eleventh inputs are special. One input is specifically intended for background music applications. It is a fixed gain, 50 k ohm, unbalanced, line level input, with remote on/off capability. It can be mixed with the other channels either before or after the master volume control. When mixed after the volume control, all other signals may be completely muted, or simply "ducked", during the page. This feature was designed with emergency paging applications in mind. The eleventh input is designed for paging applications.

ROOM COMBINING FEATURES

One of the applications the 2508 and 2509 are specifically designed to fulfill is the combining of sound systems in multiple meeting rooms. For example: a hotel has a complex of eight meeting rooms of various sizes. At times all meeting rooms are used independently of one another, while at other times movable partitions between rooms are

opened, to create one large room. Of course, any combination of rooms can also occur. The 2508 and 2509 can be combined with other 2508 or 2509s to effect room combining. A complete line of room combining accessories greatly enhance the power of the 2508 or 2509 automatic mixer. When 2508s or 2509s are combined, all automatic functions such as NOM and THRESHOLD are also combined.

"LAST ON"

The 2508 and 2509 have a feature called "Last On". This feature may be activated by installing a wire jumper on the terminal board used with the mixer. So what exactly does the "Last On" function do? Very simply; the last microphone that was gated on automatically, remains on until another microphone is gated on to take its place. This means that at least one microphone is always on in the room. This has many benefits in recording meetings or in teleconferencing. "Last On" will allow several microphones to be on at the same time if dictated by microphone usage.

ADDITIONAL FEATURES

The 2508 and 2509 can be ganged with other 2508 or 2509s to provide a greater number of inputs, when required. Each channel has adjustable "Off Attenuation", channel active status indicator, and an open-collector status output port. Channel one and two both have bass and treble controls for easy matching of wireless mics, lavaliers and wired mics. For a more in-depth description of features and applications, consult the user's manual.

WARRANTY (Limited)

Electro-Voice Professional Sound Electronic Components are guaranteed for two years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not extend to finish, appearance items or malfunction due to abuse or operation under other than specified conditions, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee. A list of authorized service centers is available from Electro-Voice, Inc., 600 Cecil Street, Buchanan, MI 49107 (AC/616-695-6831); Electro-Voice, Inc., 1366 West Center Street, Orem, UT 84057 (AC/801-224-1800); or Electro-Voice West, 8234 Doe Avenue, Visalia, CA 93291 (AC/209-651-7777). This warranty give you specific legal rights, and you may also have other rights which vary from state to state.

The service and repair address for this product is: Electro-Voice, Inc., 1366 West Center Street, Orem, UT 84057 (AC/801-224-1800).

Specifications subject to change without notice.



ELECTRO-VOICE, INC., 600 Cecil Street, Buchanan, Michigan 49107

MANUFACTURING PLANTS AT: ■ BUCHANAN, MI ■ NEWPORT TN ■ SEVIERVILLE TN ■ GANANOQUE, ONT
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